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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/663,013

09/15/2003

Prosenjit Ghosh

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7590

06/22/2006

INTEL CORPORATION

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EXAMINER

LEA EDMONDS, LISA S

ART UNIT

PAPER NUMBER

2835

DATE MAILED: 06/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/663,013	<b>Applicant(s)</b> GHOSH ET AL.	
	<b>Examiner</b> Lisa Lea-Edmonds	<b>Art Unit</b> 2835	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 15 September 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 15 September 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>7/27/05, 4/27/05</u> | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Information Disclosure Statement***

1. The examiner of record has considered the information disclosure statements (IDS) submitted on 07/27/05 and 04/27/05.

### ***Drawings***

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the keyboard interface, the keyboard cable, the display screen, and the digital pen must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement-drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New

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Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

***Claim Rejections - 35 USC § 112***

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

4. Claim 17 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. As to claim 17 being held indefinite, the examiner notes that claim 17 depends from claim 17. It is therefore, unclear to the examiner what applicant intends as the meat and bounds of claim 17. For examination purposes only, the examiner will examine claim 17 as if it depended from claim 11.

***Claim Rejections - 35 USC § 102***

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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6. Claims 1-6 are rejected under 35 U.S.C. 102(e) as being anticipated by Tanaka et al. (6961234). With respect to claims 1-6, Tanaka et al. teaches **[claim 1]** an apparatus (100) comprising a display section (110) having a back side (114) including a channel (115, 117) and a keyboard interface; a base section (120) having a keyboard (180) and coupled to the display section (110); and a support arm (140) having a keyboard cable (136), wherein a first end of the support arm (140) is adapted to join the channel (115, 117) to couple the keyboard cable (136) with the keyboard interface, and wherein a second end of the support arm (140) is attached to the base section, **[claim 2]** wherein the back side (114) further includes a latching mechanism (113) associated with the channel (115, 117), the latching mechanism (113) is to enable engaging or disengaging the first end of the support arm (140) to or from the channel (115, 117), **[claim 3]** wherein the second end is rotatable against the base section (120), **[claim 4]** wherein the second end is adapted to accommodate the display section (110), **[claim 5]** wherein the display section includes a display screen (111) on a front side, **[claim 6]** wherein the display screen is a touch-sensitive screen, and wherein the display section (110) is operable independent of the base section (120) as claimed see for example figures 1-15C.

7. Claims 11-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Ghosh et al. (6780019). The applied reference has a common assignee and inventors with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention

disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131. With respect to claims 11-17, Ghosh et al. teaches **[claim 11]** an apparatus (10) comprising a support arm (18) to support a detachable display section (12) in an upright position when the detachable display section (12) forms an angle with a base section (14), wherein the support arm (18) is to fit between the display section and the base section (14) when the angle formed between the display section (12) and the base section (14) is increasingly reduced in a first direction, **[claim 12]** wherein when the angle is increasingly reduced in the first direction, a display screen (26) on the display section (12) is visible, **[claim 13]** wherein the support arm (18) is to at least partially wrap around the display section (12) when the angle between the display section (12) and the base section (14) is increasing reduced in a second direction, **[claim 14]** wherein when the angle is increasingly reduced in the second direction, a display screen (26) on the display section (12) is not visible, **[claim 15]** wherein the support arm (18) includes a keyboard cable (28) which to connect a keyboard (22) located on the base section (14) to a keyboard interface (32) location on the display section (12), **[claim 16]** wherein the display section (12) is detachable from the base section (14) by detaching the keyboard cable (28) from the keyboard interface (32), **[claim 17]** wherein the display screen (26) is a touch-sensitive screen and wherein the display screen (26) accepts input using a digital pen as claimed, see for example figures 1A-8. With respect to claims 18-20, Ghosh et al. teaches **[claim 18]** a system, comprising keyboard logic included in a base section (14) and processing logic included

in a display section (12), wherein the processing logic operate with input entered using the keyboard (22) when the display section (12) is coupled to the keyboard (22) in a laptop mode or using a digital pen when the display section (12) is coupled to the keyboard (22) in a convertible mode or when the display section (12) is detached from the keyboard (22) in a tablet mode, [claim 19] further comprising a support arm (18) to support the display section (12) when the display section (12) is coupled with the base section (14) in the laptop mode, [claim 20] wherein the display section (12) includes a touch-sensitive display screen to accept input using the digital pen as claimed see for example figures 1A-8.

***Claim Rejections - 35 USC § 103***

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka et al. (6961234) as applied to claims 1-6 above. With respect to claims 7-10, Tanaka et al. teaches the invention as set forth by claims 1-6 (see the above 102 rejection thereof). Tanaka et al. also teaches a front side including an array of one or more speakers (170, 172). However, Tanaka et al. lacks a teaching of a fingerprint sensor, a video camera, and one or more microphones. It would have been obvious to one of ordinary skill in the art at the time the invention was made for the apparatus of

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Tanaka et al. to incorporate a fingerprint sensor, a video camera, and one or more microphones as such authentication, theft prevention and/or communication means are notoriously well know means in the art, and would also be considered as design choice.

### ***Conclusion***

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please note the teachings of Hawkins et al. (5200913), Helot et al. (6430038), Anlauff (6903927), and Jeong et al. (7014154).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lisa Lea-Edmonds whose telephone number is 571-272-2043. The examiner can normally be reached on Monday - Friday. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Field can be reached on (571) 272-2800, ext 35. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.



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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Lisa Lea-Edmonds  
Primary Examiner  
Art Unit 2835

2006-06-20